

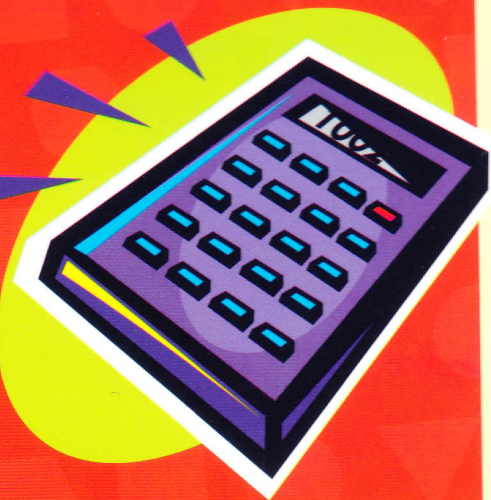
## Length

### Metric (Medidas Métricas)

- 1 kilometer (kilómetro) = 1000 meters (metros)
- 1 meter (metro) = 100 centimeters (centímetros)
- 1 centimeter (centímetro) = 10 millimeters (milímetros)

### Customary (Medidas Usuales)

- 1 mile (milla) = 1,760 yards (yardas)
- 1 mile (milla) = 5,280 feet (pies)
- 1 yard (yarda) = 3 feet (pies)
- 1 yard (yarda) = 36 inches (pulgadas)
- 1 foot (pie) = 12 inches (pulgadas)



## Conversions

To change	Multiply by
cm to in.	0.39
m to yd	1.09
km to mi	0.62
L to gal	0.26
kg to lb	2.20
in. to cm	2.54
yd to m	0.91
mi to km	1.61
gal to L	3.79
lb to kg	0.45

## Capacity and Volume

### Metric

- 1 liter (litro) = 1000 milliliters (mililitros)

### Customary

- 1 gallon (galón) = 4 quarts (cuartos)
- 1 gallon (galón) = 128 ounces (onzas)
- 1 quart (cuarto) = 2 pints (pintas)
- 1 pint (pinta) = 2 cups (tazas)
- 1 cup (taza) = 8 ounces (onzas)

## Mass and Weight

### Metric

- 1 kilogram (kilogramo) = 1000 grams (gramos)
- 1 gram (gramo) = 1000 milligrams (miligramos)

### Customary

- 1 ton (tonelada) = 2,000 pounds (libras)
- 1 pound (libra) = 16 ounces (onzas)

## Abbreviations

mm = millimeter	in. = inch
cm = centimeter	ft = foot
m = meter	yd = yard
km = kilometer	mi = mile
mL = milliliter	oz = ounce
L = liter	c = cup
	pt = pint
	qt = quart
	gal = gallon
mg = milligram	oz = ounce
g = gram	lb = pound
kg = kilogram	ton = ton

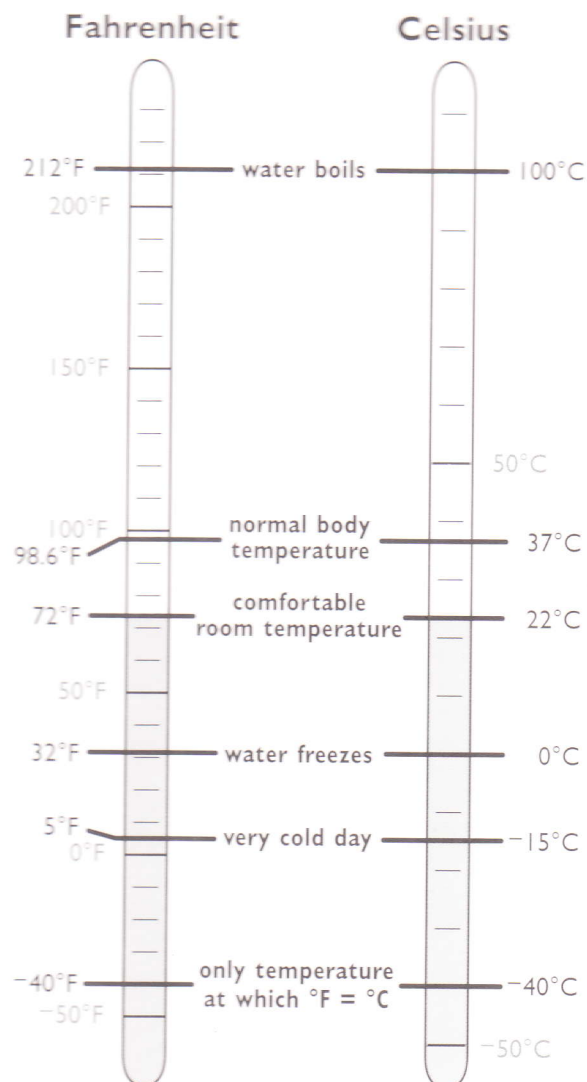
Name: \_\_\_\_\_

Centimeters

Centimeters



## Temperature



## Fractions

Fraction (fracción)	Decimal (decimal)	Percent (por ciento)
$\frac{1}{8}$	0.125	12.5%
$\frac{1}{5}$	0.2	20%
$\frac{1}{4}$	0.25	25%
$\frac{1}{3}$	$0.\bar{3}$	$33\frac{1}{3}\%$
$\frac{3}{8}$	0.375	37.5%
$\frac{2}{5}$	0.4	40%
$\frac{1}{2}$	0.5	50%
$\frac{3}{5}$	0.6	60%
$\frac{5}{8}$	0.625	62.5%
$\frac{2}{3}$	$0.\bar{6}$	$66\frac{2}{3}\%$
$\frac{3}{4}$	0.75	75%
$\frac{4}{5}$	0.8	80%

## Time

1 year (año) = 365 days (días)

1 year (año) = 12 months (meses)

1 year (año) = 52 weeks (semanas)

1 week (semana) = 7 days (días)

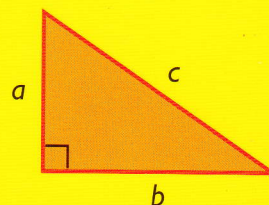
1 day (día) = 24 hours (horas)

1 hour (hora) = 60 minutes (minutos)

1 minute (minuto) = 60 seconds (segundos)

### Pythagorean Theorem

$$a^2 + b^2 = c^2$$



**simple interest =  $p r t$**

$p$  = principal

$r$  = annual rate of interest

$t$  = time in years

### Symbols




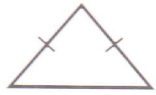
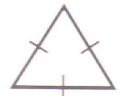
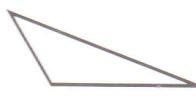
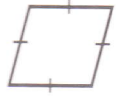
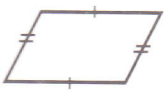
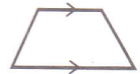
$\approx$  is approximately equal to

$\neq$  is not equal to

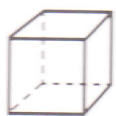
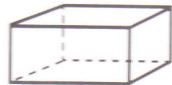
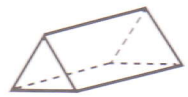


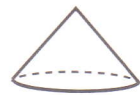


$\equiv$  is congruent to







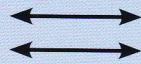
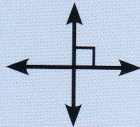

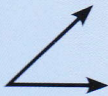
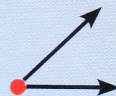

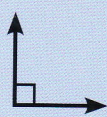



## Two-Dimensional Figures

	right triangle (triángulo rectángulo)
	acute triangle (triángulo acutángulo)
	obtuse triangle (triángulo obtusángulo)
	isosceles triangle (triángulo isósceles)
	equilateral triangle (triángulo equilátero)
	scalene triangle (triángulo escaleno)
	rhombus (rombo)
	parallelogram (paralelogramo)
	trapezoid (trapecio)

## Three-Dimensional Figures

	cube (cubo)
	rectangular prism (prisma rectangular)
	triangular prism (prisma triangular)
	rectangular pyramid (pirámide rectangular)
	triangular pyramid (pirámide triangular)
	cone (cono)
	cylinder (cilindro)
	sphere (esfera)

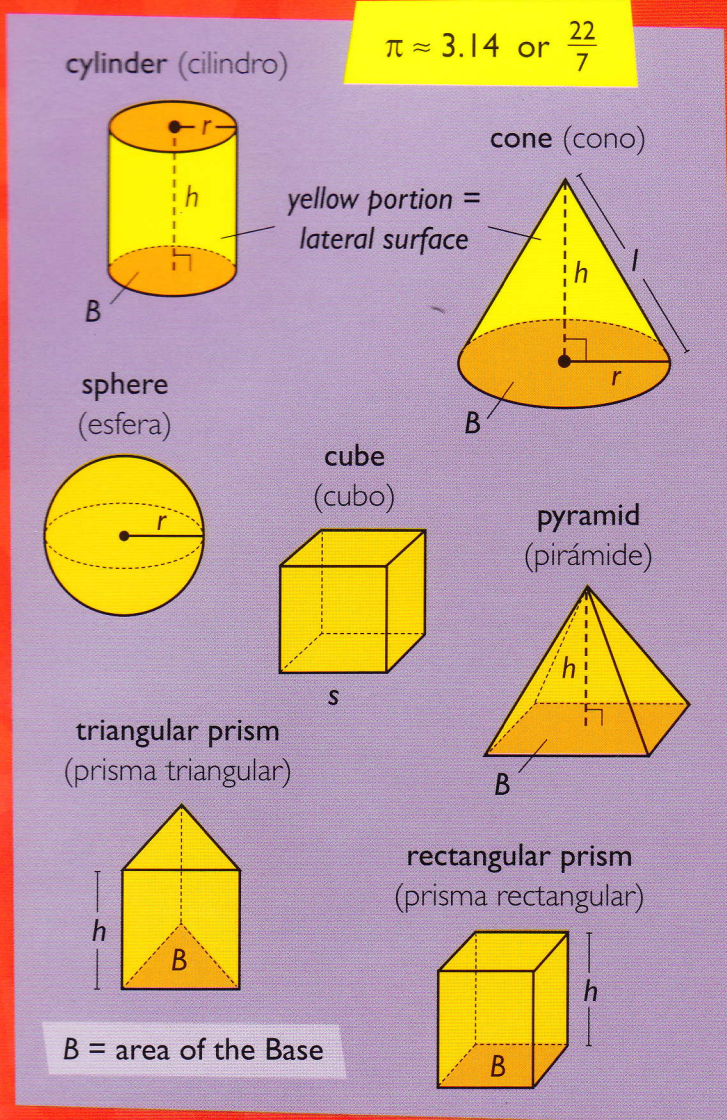
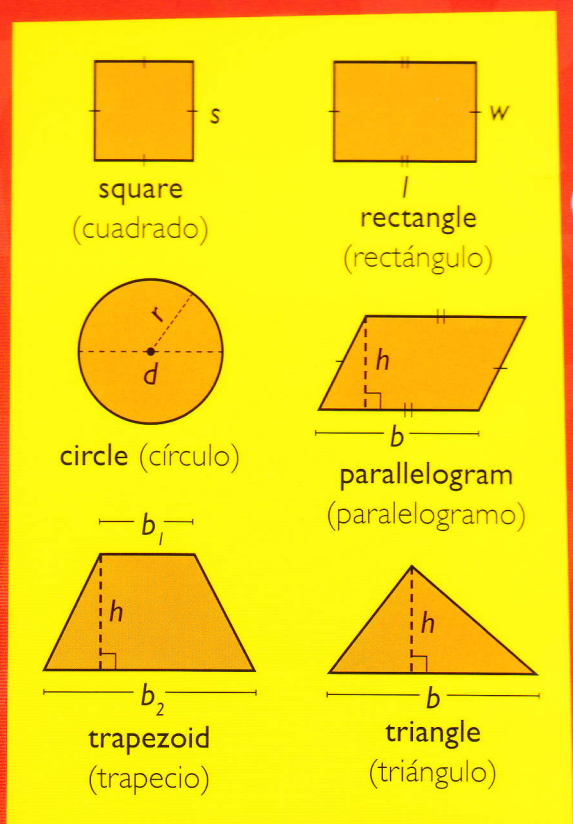
## Geometric Terms

point (punto)	ray (rayo)	line (recta, línea)	line segment (segmento de recta)	parallel lines (rectas paralelas)	perpendicular lines (rectas perpendiculares)	intersecting lines (rectas secantes)
						
angle (ángulo)	vertex (vértice)	acute angle (ángulo agudo)	right angle (ángulo recto)	obtuse angle (ángulo obtuso)	straight angle (ángulo llano)	plane (plano)
						





<b>Perimeter</b> (Perímetro)	square	$P = 4s$
	rectangle	$P = 2l + 2w$ or $P = 2(l + w)$
<b>Circumference</b> (Circunferencia)	circle	$C = 2\pi r$ or $\pi d$
<b>Area</b> (Área)	circle	$A = \pi r^2$
	square	$A = s^2$
	rectangle	$A = lw$ or $bh$
	parallelogram	$A = bh$
	trapezoid	$A = \frac{1}{2}h(b_1 + b_2)$
	triangle	$A = \frac{1}{2}bh$ or $\frac{bh}{2}$



<b>Surface area</b> (Área de la superficie)	
cylinder (lateral)	$SA = 2\pi rh$
cylinder (total, including bases)	$SA = 2\pi rh + 2\pi r^2$ or $SA = 2\pi r(h + r)$
cone (lateral)	$SA = \pi rl$
cone (total, including base)	$SA = \pi rl + \pi r^2$ or $SA = \pi r(l + r)$
sphere	$SA = 4\pi r^2$
cube	$SA = 6s^2$
<b>Volume</b> (Volumen)	
cylinder	$V = Bh$
cone	$V = \frac{1}{3}Bh$
sphere	$V = \frac{4}{3}\pi r^3$
prism	$V = Bh$
pyramid	$V = \frac{1}{3}Bh$

